

SYSTEM FOR ALLOCATING RESOURCES IN A PROCESS SYSTEM AND  
METHOD OF OPERATING THE SAME

5 ABSTRACT OF THE DISCLOSURE

There are disclosed systems, as well as methods of operating the same, for allocating a plurality of resources, both process and human resources, among a plurality of tasks within a process system. An exemplary resource allocator is introduced that is operable to allocate a plurality of resources among a plurality of tasks within a process system, wherein the plurality of resources includes both human resources and process resources and wherein the process system includes a plurality of application processes. The resource allocator includes a memory, a status-monitoring controller, and a resource allocation controller. An exemplary memory in accord herewith is operable to store a model of the process system, wherein the model (i) represents mathematically the plurality of application processes, the plurality of resources, and the plurality of tasks, and (ii) defines various relationships among related ones thereof. An exemplary status-monitoring controller in accord herewith is operable to monitor measurable characteristics associated with ones of the process system, the application processes, the resources, and the tasks. An exemplary resource allocation controller in accord herewith, and in response

to ones of the monitored measurable characteristics, is operable to: (i) modify ones of the mathematical representations and (ii) allocate ones of the resources among ones of the tasks within the process system.